



LOW FORWARD VOLTAGE SCHOTTKY BARRIER RECTIFIER

SRL1630 THRU SRL1660

VOLTAGE RANGE

30 to 60 Volts

CURRENT

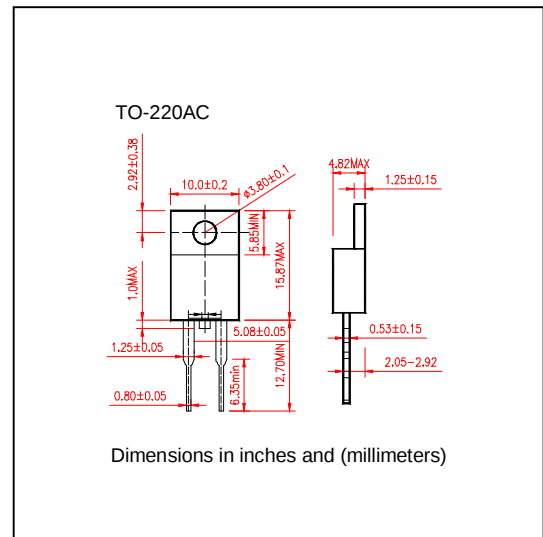
16.0 Ampere

FEATURES

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High efficiency
- High Surge Capability
- High Current capacity and Low Forward Voltage Drop
- For use in low voltage high frequency inverters, Free wheeling, and polarity protection applications
- Plastic Material has UL Flammability Classification 94V-0

MECHANICAL DATA

- Case: D²-PAK molded plastic
- Terminals: Plated Lead solderable per MIL-STD-202 Method 208
- Polarity: See Diagram
- Weight: 2.24 grams (approx)
- Mounting Position: Any
- Marking: Type Number



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

		SYMBOLS	SRL 1630	SRL 1635	SRL 1640	SRL 1645	SRL 1650	SRL 1660	UNIT
Peak Repetitive Reverse Voltage		V _{RRM}	30	35	40	45	50	60	V
Working Peak Reverse Voltage		V _{RWM}							
DC Blocking Voltage		V _R							
RMS Reverse Voltage		V _{R(RMS)}	21	25	28	32	35	42	V
Average Rectified Output Curent (Note 1)@T _c =95℃		I _O	10.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	250						A
Forward Voltage Drop @I _F =16A,T _c =25℃		V _{FM}	0.55				0.65		V
Peak Reverse Current at Rated DC Blocking Voltage	T _c = 25℃	I _{RM}	1.0						mA
	T _c = 100℃		50						
Typical Junction Capacitance(Note2)		C _j	700						pF
Typical Resistance Junction to case(Note1)		R _{θJC}	3.5						℃/W
Operating and Storage Temperature Range		T _J T _{STG}	(-55 to +150)						℃

Notes:

1. Thermal Resistance Junction to case mounted on heatsink
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC



LOW FORWARD VOLTAGE SCHOTTKY BARRIER RECTIFIER

SRL1630 THRU SRL1660

VOLTAGE RANGE 30 to 60 Volts
CURRENT 16.0 Ampere

RATINGE AND CHARACTERISTIC CURVES SRL1630 THRU SRL1660

FIG.1-FORWARD CURRENT
DERATING CURVE

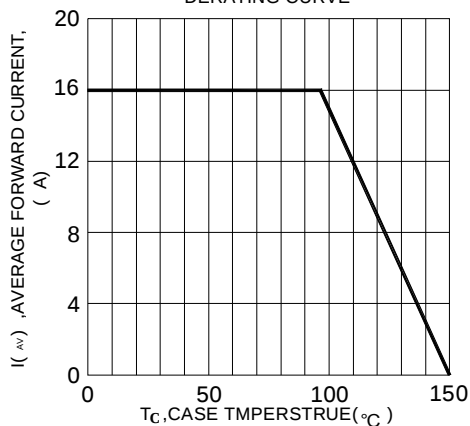


FIG.2-TYPICAL FORWARD
CHARACTERISTICS

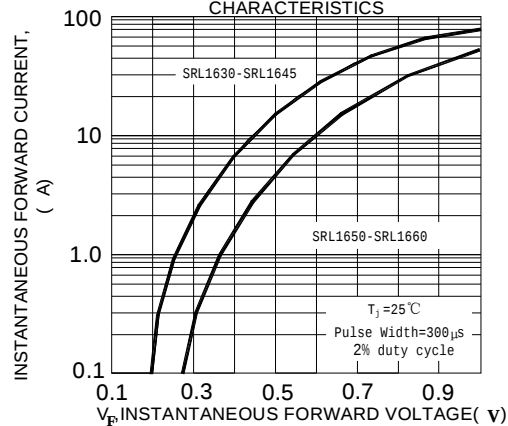


FIG.3 MAX NON-REPETITIVE SURGE CURRENT

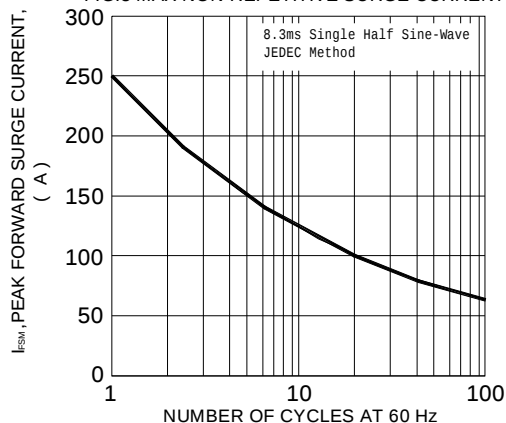


FIG.4 TYPICAL JUNCTION CAPACITANCE
PER ELEMENT

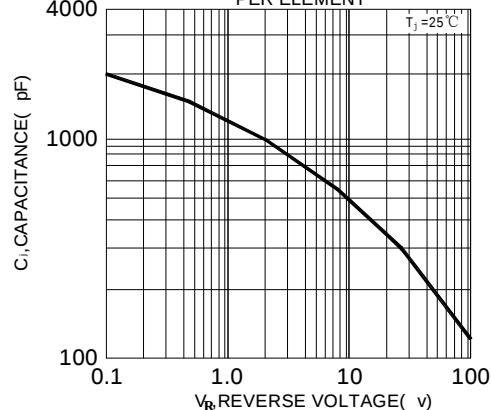


FIG.5-TYPICAL REVERSE
CHARACTERISTICS

